

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: November 26, 2003, 09:11:19 / Search time 142.914 Seconds  
(without alignments)  
9277.743 Million cell updates/sec

Title: US-09-981-900b-4  
Perfect score: 3004  
Sequence: 1 GGATCCAGCTGTGACAGGTCGCTGCTTCTGTAGAGCGGAGTGTGTCAC

Scoring table: IDENTITY NUC  
Gapop 10.0, Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :  
1: Issued Patents NA:  
2: /cgn2\_6/prodata/2/ina/5A COMB. seq.\*  
3: /cgn2\_6/prodata/2/ina/5B COMB. seq.\*  
4: /cgn2\_6/prodata/2/ina/6A COMB. seq.\*  
5: /cgn2\_6/prodata/2/ina/6B COMB. seq.\*  
6: /cgn2\_6/prodata/2/ina/6C COMB. seq.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3004	100.0	3004	1	US-08-276-213-6
2	2283.4	76.0	2293	1	US-08-504-913B-12
3	131.8	4.4	1662	1	US-08-551-572-1
4	131.8	4.4	1662	3	US-09-066-544-1
5	131.8	4.4	1662	3	US-08-951-086-1
6	131.8	4.4	1662	4	US-09-430-669-1
7	91	3.0	1293	4	US-09-869-197-2
8	91	3.0	1377	4	US-09-869-197-2
9	73.8	2.5	1305	4	US-09-329-234A-6
10	63	2.1	1028	3	US-08-458-745-1
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13	61.2	2.0	882	4	US-08-818-111-133
14	61.2	2.0	882	4	US-09-056-556-138
15	61.2	2.0	882	4	US-09-072-596-133
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17	61.2	2.0	4411529	3	US-09-103-840A-1
18	60.6	2.0	330	3	US-09-197-649-7
19	59	2.0	11707	3	US-09-136-574A-1
20	58.6	2.0	1470	3	US-09-109-841-1
21	57	1.9	3404	5	US-08-265-429A-1
22	57	1.9	3404	5	PCT-US95-09069-1
23	56.8	1.9	1677	4	US-09-252-991A-4621
24	55.2	1.8	2712	3	US-09-025-691A-4
25	54.4	1.8	77536	4	US-09-410-551B-1
26	54.2	1.8	6416	3	US-09-136-574A-2
27	53.6	1.8	4403765	3	US-09-103-840A-2

28	53.2	1.8	3978	4	US-09-266-965-19	Sequence 19, Appl
29	53.2	1.8	12249	4	US-09-266-965-74	Sequence 74, Appl
30	53.2	1.8	18331	4	US-09-266-965-96	Sequence 96, Appl
31	53	1.8	4411529	3	US-09-103-840A-1	Sequence 1, Appl
32	52.8	1.8	3572	4	US-09-575-574-3	Sequence 3, Appl
33	52.4	1.7	1434	4	US-09-434-288-3	Sequence 3, Appl
34	52.2	1.7	150	2	US-07-829-461A-8	Sequence 8, Appl
35	51.8	1.7	2249	3	US-08-814-052-19	Sequence 19, Appl
36	51.4	1.7	2370	1	US-08-104-072B-7	Sequence 7, Appl
37	51.4	1.7	2370	1	US-08-351-413-8	Sequence 8, Appl
38	51.4	1.7	2370	2	US-09-025-583-8	Sequence 8, Appl
39	50.6	1.7	2312	1	US-07-736-178C-1	Sequence 1, Appl
40	50.4	1.7	1716	3	US-09-321-981-4	Sequence 4, Appl
41	50.4	1.7	1716	4	US-09-739-861A-4	Sequence 4, Appl
42	50.4	1.7	1716	4	US-09-739-583-4	Sequence 4, Appl
43	49.8	1.7	3765	3	US-07-705-480-1	Sequence 1, Appl
44	49.8	1.7	3765	3	US-07-751-891B-1	Sequence 1, Appl
45	49.6	1.7	494	4	US-09-056-556-176	Sequence 176, App

# ALIGNMENTS

RESULT 1  
US-08-276-213-6  
Sequence 6, Application US/08276213  
Patent No. 5536655  
GENERAL INFORMATION:  
APPLICANT: Thomas, Steven  
APPLICANT: Laymon, Robert  
APPLICANT: Himmel, Michael  
TITLE OF INVENTION: GENE ENCODING FOR THE EI ENDOGLUCANASE  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESSES:  
ADDRESS: National Renewable Energy Laboratory  
STREET: 1617 Cole Boulevard  
CITY: Golden  
STATE: CO  
COUNTRY: USA  
ZIP: 80401-3393  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/276,213  
FILING DATE:  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: O'Connor, Edna  
REGISTRATION NUMBER: 29,252  
REFERENCE/DOCKET NUMBER: NREL IR# 94-08  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (303)231-1000  
TELEFAX: (303)231-1098  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3004 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FRAGMENT TYPE: N-terminal  
US-08-276-213-6  
Query Match 100.0%; Score 3004; DB 1; Length 3004;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 3004; Conservative 0; Mismatches 0; Gaps 0;  
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Applicants copy

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Db 2161 GCGAGGCTTACTCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2220

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2761 CTTCTTCGCGCAACCGGTACTGCGCGGCAAGATGAGTTCGCGCATCTTATGCGGAGCGAC 2820
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3001 CCGG 3004
3002 CCGG 3004
3003 CCGG 3004
3004 CCGG 3004

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## RESULT 2

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US-08-604-913B-12
Sequence 12, Application US/08604913B
Patent No. 5712142
GENERAL INFORMATION:
APPLICANT: Adney, William S.
APPLICANT: Thomas, Steven R.
APPLICANT: Himmelfarb, Michael E.
APPLICANT: Baker, John O.
APPLICANT: Chou, Yat-Chen
TITLE OF INVENTION: METHOD FOR INCREASING
THERMOSTABILITY IN CELLULOSE ENZYMES
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESSES:
ADDRESS: National Renewable Energy Laboratory

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STREET: 1617 Cole Boulevard
CITY: Golden
STATE: CO
COUNTRY: U.S.A.
ZIP: 80401-3393
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASC II (DOS) Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/604,913B
FILING DATE:
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/276,213
FILING DATE: 15-070-1994
ATTORNEY/AGENT INFORMATION:
NAME: Edna M. O'Connor
REGISTRATION NUMBER: 29,252
REFERENCE/DOCKET NUMBER: 95-56
TELECOMMUNICATION INFORMATION:
TELEPHONE: 303/384-7573
TELEFAX: 303/384-7573
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 2293 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA
FEATURE:
NAME/KEY: E1-CAT
US-08-604-913B-12

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Query Match: 76.0%; Score 2283.4; DB 1; Length 2293;
Best Local Similarity: 99.7%; Pred. No. 0;
Matches 2287; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

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1 GGATTCAGGTTGTAACAAGTCACTGTCCTGCTTGTGAGACGGGAGTGCACC 60
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61 CGCAGATCTCTCTTTGTTGATGATGCAAGGTGCACTGTTGCGGTGCGCGG 120
121 ATTTTCGCGCTCGGCGCTTGTGCGGCGGTGCGGCGGTGCGGCGGTGCGG 180
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